

IN THE CLAIMS

Please substitute the claims with the following:

1-59. (Canceled)

60. (Previously Submitted) A method in a data processing apparatus for accessing cell data of a spreadsheet file cell in a record-based computer readable-medium, comprising:
determining whether cell data location information for a selected spreadsheet file cell is contained in a first grid record;
if the cell data location information is contained in the first grid record, determining the cell data location information from the first grid record;
determining the location of cell data corresponding to the spreadsheet file cell in a cell data record based on the cell data location information; and
extracting the cell data from the cell data record.

61. (Previously Submitted) The method of claim 60, further comprising:
if the cell data location information is not contained in the first grid record, determining whether the cell data location information is contained in a second grid record.

62. (Previously Submitted) The method of claim 60, further comprising:
determining from a property record property information of the spreadsheet file.

63. (Previously Submitted) The method of claim 60, wherein determining whether cell data location information for a selected spreadsheet file cell is contained in a first grid record includes comparing a column number of the spreadsheet file cell to a column value range of the first grid record.

64. (Previously Submitted) The method of claim 61, wherein determining whether cell data location information for a selected spreadsheet file cell is contained in a first grid record

includes comparing a column number of the spreadsheet file cell to a column value range of the second grid record.

65. (Previously Submitted) The method of claim 60, wherein the cell data location information indicates the location of cell data in the cell data record.

66. (Previously Submitted) The method of claim 65, wherein the cell data location information is a 16 bit matrix.

67. (Previously Submitted) The method of claim 66, wherein the first 10 bits of the 16 bit matrix indicate the cell data record containing the cell data, and the last 6 bits of the 16 bit matrix indicated the location of the cell data within the cell data record.

68. (Previously Submitted) The method of claim 65, where the cell data location information indicates a value of zero if the spreadsheet file cell is empty.

69. (Previously Submitted) The method of claim 60, wherein the data processing apparatus is a personal digital assistant.

70. (Previously Submitted) A computer-readable medium having stored thereon computer-executable instructions for causing a computer to execute a method for accessing cell data of a spreadsheet file cell in a record-based memory, the method comprising the steps of:

determining whether cell data location information for a selected spreadsheet file cell is contained in a first grid record;

if the cell data location information is contained in the first grid record, determining the cell data location information from the first grid record;

determining the location of cell data corresponding to the spreadsheet file cell in a cell data record based on the cell data location information; and

extracting the cell data from the cell data record.

71. (Previously Submitted) The computer-readable medium of claim 70, further comprising the step of:

if the cell data location information is not contained in the first grid record, determining whether the cell data location information is contained in a second grid record.

72. (Previously Submitted) The computer-readable medium of claim 70, further comprising the step of:

determining from a property record property information of the spreadsheet file.

73. (Previously Submitted) The computer-readable medium of claim 70, wherein determining whether cell data location information for a selected spreadsheet file cell is contained in a first grid record includes comparing a column number of the spreadsheet file cell to a column value range of the first grid record.

74. (Previously Submitted) The computer-readable medium of claim 71, wherein determining whether cell data location information for a selected spreadsheet file cell is contained in a first grid record includes comparing a column number of the spreadsheet file cell to a column value range of the second grid record.

75. (Previously Submitted) The computer-readable medium of claim 70, wherein the cell data location information indicates the location of cell data in the cell data record.

76. (Previously Submitted) The computer-readable medium of claim 75, wherein the cell data location information is a 16 bit matrix.

77. (Previously Submitted) The computer-readable medium of claim 76, wherein the first 10 bits of the 16 bit matrix indicate the cell data record containing the cell data, and the last 6 bits of the 16 bit matrix indicated the location of the cell data within the cell data record.

78. (Previously Submitted) The computer-readable medium of claim 75, where the cell data location information indicates a value of zero if the spreadsheet file cell is empty.

79. (Previously Submitted) The computer-readable medium of claim 70, wherein the computer-readable medium is contained in a personal digital assistant.